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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/675,796	09/29/2003	Akira Ishikawa	05911.0006.CNUS04	2224	
27194	7590 12/28/2004		EXAMINER		
	SIMON ARNOLD & V ETING DEPARTMENT	RESAN, STEVAN A			
2941 FAIRVIEW PARK DRIVE, SUITE 200			ART UNIT	PAPER NUMBER	
FALLS CHU	RCH, VA 22042-2924		1773		

DATE MAILED: 12/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

				12/			
		Application No.	Applicant(s)	- (j			
		10/675,796	ISHIKAWA ET AL.				
Office A	ction Summary	Examin r	Art Unit				
		Stevan A. Resan	1773				
The MAILING	DATE of this communication a	ppears on the cover sheet wit	h the correspond nce addres	;s			
THE MAILING DAT - Extensions of time may be after SIX (6) MONTHS from the period for reply specifing the period for reply is period for reply is period for reply in the period for reply within the Any reply received by the	ATUTORY PERIOD FOR REF E OF THIS COMMUNICATION e available under the provisions of 37 CFR om the mailing date of this communication cified above is less than thirty (30) days, a repecified above, the maximum statutory perion set or extended period for reply will, by state office later than three months after the maintent. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a re eply within the statutory minimum of thirty od will apply and will expire SIX (6) MONT ute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this commu ANDONED (35 U.S.C. § 133).	inication.			
Status							
1) Responsive to	communication(s) filed on 29	September 2003.					
2a) This action is	· —	his action is non-final.					
•	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in acc	ordance with the practice unde	r <i>Ex part</i> e Quayle, 1935 C.D.	. 11, 453 O.G. 213.				
Disp sition of Claims							
4)⊠ Claim(s) <u>1-10</u>	is/are pending in the application	on.					
•	ove claim(s) is/are withd	rawn from consideration.					
5) Claim(s)							
6)⊠ Claim(s) <u>1-10</u>	·						
•	_ is/are objected to.			-			
8) Claim(s)	_ are subject to restriction and	I/or election requirement.					
Application Papers	1		·	-			
9) The specificat	ion is objected to by the Exami	ner.					
10) The drawing (s) filed on is/are: a) a	ccepted or b) \square objected to t	by the Examiner.				
Applicant may	not request that any objection to th	ne drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).				
Replacement of	rawing sheet(s) including the corre	ection is required if the drawing(s) is objected to. See 37 CFR 1	.121(d).			
11) The oath or de	eclaration is objected to by the	Examiner. Note the attached	Office Action or form PTO-1	152.			
Priority under 35 U.S.	C. § 119						
a) ☐ All b) ☐ S 1. ☐ Certifie 2. ☑ Certifie 3. ☐ Copies	ent is made of a claim for foreignee * c) None of: d copies of the priority docume d copies of the priority docume of the certified copies of the pri	ents have been received. ents have been received in Apriority documents have been	pplication No. <u>09/554678</u> .	ge			
• •	ed detailed Office action for a li		received.				
		·					
Attachment(s)		 .	, marc. 1101				
1) Notice of References (Cited (PTO-892) 's Patent Drawing Review (PTO-948)		ummary (PTO-413))/Mail Date				
· —	Statement(s) (PTO-1449 or PTO/SB/0	_, [T]	formal Patent Application (PTO-152	2)			
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Application/Control Number: 10/675,796

Art Unit: 1773

DETAILED ACTION

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1, 2, 4, 7-10 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The claims are deemed undefined due to the following: Claim 1 - claims a resin layer serving as a non-recording surface - however servo indicia for tracking are considered recorded information: The examiner suggests "non-magnetic recording surface."

Claim 1 - "a region" and "the other major region". Is "a region" a " major region"?

The examiner suggests the use of "first" and "second" region terminology.

Claim 2 - "other major region" (see above); "prescribed" wavelength. "prescribed" is deemed indefinite and speculative.

Claim 4 "said layer containing coloring matter" has no antecedent basic in claim 2 from which it depends; "prescribed" (see above).

Claim 7 - thin layer - "thin" is a relative term; "said layer containing coloring matter" has no antecedent basis in claims 4 or claim 2 from which it depends.

Claim 8 - "thin layer" "low melting point".

These are relative terms.

Claim 9 - "thin layer"

Claim 10 claims substantially the same invention as in claim 1.

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and

Application/Control Number: 10/675,796

Art Unit: 1773

the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 1,2,3,10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wallack US 5,589,247.

Wallack et al disclose the invention substantially as claimed except for the tape having a thickness of 7um or less. However, the combined preferred thickness range of Wallack et al for the substrate, magnetic layer and blackcoat layer overlap the range of 7um or less. It would have been obvious to one of ordinary skill in the art to minimize tape thickness in order to maximize the amount of information on a given diameter tape reel. The limitation "for servo tracking has been treated as an intended use and given no weight.

- 5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- A person shall be entitled to a patent unless -
 - (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1, 3, 4, 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Evans et al U.S. 5,462,823.

See Fig. 2b, page 4, line 18, page 5, paragraph 2.

Application/Control Number: 10/675,796

Art Unit: 1773

7. Claims 2, 5, 6, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Evans et al as applied above and discussed below.

Evans et al do not disclose the differences in reflections or transmission as in claim 2, however it would have been obvious to one of ordinary skill in the art to maximize contrast between illuminated and non illuminated regions (See col. 5, lines 37-40).

Evans et al do not disclose the coefficient of friction on the non-magnetic recording side. However, Evans disclose the use of lubricants in or on the magnetic recording media side. Since these lubricants are intended to minimize the coefficient of friction for the magnetic layer and will transfer to the non-magnetic recording side of a tape when wound. The examiner takes the position that the transferred lubricant would also inherently lower the coefficient of friction of the non-magnetic recording side. It would have been obvious to one of ordinary skill in the art to minimize friction on both sliding surfaces since the non-magnetic recording side must transverse and contact quide pins.

Evans discloses a backcoating layer that may serve as an outermost layer containing binder and inorganic powder (Col 11 lines 52-57). Evans also discloses the alternative use of the radiation absorbing dye for generating or destroying an image. When an image is generated, it would have been obvious to one of ordinary skill in the art to protect it from degeneration due to generalized exposure to light and therefor employ a protective coating to filter the more destructive short wavelengths of light.

Claim 9 is deemed within the normal range of an optical servo track. (See background of present specification). It would have been obvious to one of ordinary skill in the art to adjust the servo track dimension depending upon the servo beam tracking equipment used. i.e. the diameter of the servo tracking beam.

Application/Control Number: 10/675,796 Page 5

Art Unit: 1773

8. Claim 8 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stevan A. Resan whose telephone number is 571-272-1513. The examiner can normally be reached on Tues-Thurs from 7:30 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones, can be reached at 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

STEVAN A. RESAN PRIMARY EXAMINER